

## CLAIMS

1. Method of reducing the negative influence on signals transmitted in one ( $B_1$ ) of at least two frequency bands ( $B_1$ ,  $B_2$ ) comprising the steps of:
- 5 when transmitting signals in a first frequency band on a first connection (22) from a signal generating chip (16) to a power amplifying chip (18), (step 32), breaking a second separate connection (24) provided between the signal generating chip and the power amplifying chip, which second connection is used for a second frequency band ( $B_2$ ), (step 30), and
- 10 when transmitting signals on the second connection from said signal generating chip to the power amplifying chip, breaking the first connection (22) between the signal generating chip and the power amplifying chip.
- 15 2. Method according to claim 1, further comprising the step of providing a control signal (CTRL) by the signal generating chip (step 28) and the step of breaking is performed in dependence of said control signal.
- 20 3. Method of reducing the negative influence on signals transmitted in one of at least two frequency bands ( $B_1$ ,  $B_2$ ) comprising the steps of:
- when receiving, in a power amplifying chip (18), signals in a first frequency band ( $B_1$ ) on a first connection (22) provided between a signal generating chip (16) and the power amplifying chip, (step 34),
- 25 breaking a second separate connection (24) provided between the signal generating chip and the power amplifying chip, (step 30), which second connection is used for a second frequency band ( $B_2$ ), and
- when receiving signals on the second connection from said signal generating chip,
- 30 breaking the first connection (22) between the signal generating chip and the power amplifying chip.
- 35 4. Device (36) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:
- a signal generating chip (16) for connection to a power amplifying chip (18) via at least a first and a second separate connection (22, 24), and
- at least one connection breaking unit (20) connected to the two connections and arranged to break the second connection (24) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on

the first connection (22) and arranged to break the first connection (22) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the second connection (24).

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5. Device according to claim 4, wherein the signal generating unit is arranged to provide a control signal (CTRL) and the connection breaking unit is provided with a control signal input for receiving the control signal for actuating the breaking of the connection.

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6. Device according to claim 5, wherein the connection breaking unit is a switch, preferably an RF switch.

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7. Device according to any of claims 4 - 6, wherein the signal generating chip is a modulation chip.

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8. Device (36) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:

a power amplifying chip (18) for connection to a signal generating chip (16) via at least a first and a second separate connection (22, 24), and at least one connection breaking unit (20) connected to the first and the second connection and arranged to break the second connection between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the first connection (22) and to break the first connection (22) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the second connection (24).

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9. Device (310;12) for reducing the negative influence on signals transmitted in one of at least two frequency bands comprising:

a power amplifying chip (18) and a signal generating chip (16) connected to each other via at least a first and a second separate connection (22, 24), and

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at least one connection breaking unit (20) connected to the first (22) and the second (24) connection and arranged to break the second connection (24) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the first connection (22) and to break the first

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connection (22) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the second connection (24).

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10. Device according to claim 9, in which it is a portable communication device (10).

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11. Device according to claim 10, in which it is a cellular phone.

12. Device according to claim 9, in which it is a base station (12).

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13. System of wireless communication devices comprising at least one portable communication device (10) and at least one base station (12), wherein at least one of the devices comprises:

a power amplifying chip (18) and a signal generating chip (16) connected to each other via at least a first and a second separate connection (22, 24), and

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at least one connection breaking unit (20) connected to the first and the second connections (22, 24) and arranged to break the second connection (24) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the first connection (22) and to break the first connection (22) between the signal generating chip and the power amplifying chip, when signals are to be transmitted from the signal generating chip to the power amplifying chip on the second connection (24).

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